

Jacobsen

MANUFACTURING COMPANY

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ORIGINAL CLEBY 235779
☐ DECL ☐ REVW ON 2010
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RACINE, WISCONSIN

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JUST <u>22</u>	NEXT REV <u>2010</u>	AUTH: WH 16-2

December 21, 1953

Via: AIR MAIL - SPECIAL DELIVERY

Subject: Speed Reducer

Dear 

A few fast lines to let you know that we believe we have arrived with a satisfactory speed reducer for use with the hand cranked generator.

You will recall that we had proposed a spring type torque drive to cushion the terrific load impact. This was tried and thrown out within about thirty seconds. It provided nothing in the way of cushion; in fact, we lost several components during this short time of operation.

Our next step was to try something we have been tossing around for some time, but for some unknown reason we just continued to toss it until our sad experience with the spring.

This "revolutionary" approach may not meet with your approval and that is why we are writing you at this time. It has been suggested that a belt drive might be frowned upon, and frankly, that is just what we are using.

The drive between the generator and the speed reducer consists of two, five inch pulleys and an appropriate "B" section V-belt. An over-center belt tension lever will be provided to facilitate disengagement for engine start-up as well as to keep the belt under proper tension.

The overall width and height of the belt guard (formerly chain guard) will be increased approximately one inch, however, this assembly still remains within the confines of the engine and generator. Performance is all that one could ask for, it is smooth and positive, and we feel that it will be somewhat less costly to build.

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SUBSIDIARIES
 WORTHINGTON MOWER COMPANY, STROUDBURG, PENN.
 JOHNSTON LAWN MOWER CORPORATION, BROOKHAVEN, MISS.

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We would appreciate it very much if you would review this new approach and let us know whether or not it meets with your approval. In the meantime, we will continue testing the unit.

Very truly yours,

JACOBSEN MANUFACTURING COMPANY

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a rough model of the above drive was inspected at
Jacobsens plant on 31 Dec '53 and appeared to be working
o.k. Jacobsen will fabricate a better model for demonstration
about the end of January '54

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